



PATENT  
37310-000125/US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: **Sungho JIN et al.**

Conf: **1494**

Serial No.: **09/338,520**

Group: **2879**

Filed: **June 23, 1999**

Examiner: **T. Clove**

For: **CATHODE WITH IMPROVED WORK FUNCTION AND METHOD  
FOR MAKING THE SAME**

**AMENDMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

**November 22, 2002**

Sir:

Responsive to the Office Action mailed **August 22, 2002**, the following amendments and remarks are respectfully submitted in connection with the above-identified application.

**IN THE CLAIMS**

Please amend the following claims:

✓ 17. (Amended) The thermoionic cathode of claim 1, wherein said buffer is an alloyed buffer.

✓ 20. (Amended) The thermoionic cathode of claim 1, wherein said buffer includes at least two of Re, Ta, C, Hf, Tc, Os, and Ru.

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FORM**

to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

8

Application Number

09/338,520

Filing Date

June 23, 1999

First Named Inventor

Sungho JIN et al.

Group Art Unit

2879

Examiner Name

T. Clove

Attorney Docket Number

37310-000125/US

**ENCLOSURES (check all that apply)**☐ Fee Transmittal Form☐ Fee Attached☒ Amendment / Response☐ After Final☐ Affidavits/declaration(s)☐ Extension of Time Request☐ Express Abandonment Request☐ Information Disclosure Statement☐ Certified Copy of Priority Document(s)☐ Response to Missing Parts/  
Incomplete Application☐ Response to Missing  
Parts under 37 CFR  
1.52 or 1.53☐ Assignment Papers  
(for an Application)☐ Drawing(s)☐ Licensing-related Papers☐ Petition☐ Petition to Convert to a  
Provisional Application☐ Power of Attorney, Revocation  
Change of Correspondence Address☐ Terminal Disclaimer☐ Request for Refund☐ CD, Number of CD(s) \_\_\_\_\_☐ After Allowance Communication to  
Group☐ Appeal Communication to Board of  
Appeals and Interferences☐ Appeal Communication to Group  
(Appeal Notice, Brief, Reply Brief)☐ Proprietary Information☐ Status Letter☐ Other Enclosure(s)  
(please identify below):

Remarks

**The Commissioner is hereby authorized to charge any additional fees that may be required under 37 CFR 1.16 or 1.17 to Deposit Account No. 08-0750. A duplicate copy of this sheet is enclosed.****SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**Firm  
or  
Individual name

Harness, Dickey &amp; Pierce, P.L.C.

Attorney Name  
Gary D. YacuraReg. No.  
35,416

Signature

Date

November 22, 2002

**CERTIFICATE OF MAILING/TRANSMISSION**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, or facsimile transmitted to the U.S. Patent and Trademark Office on the date indicated below.

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